TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-29-03** **Date: 02-06-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	29-05-17
Sample ID No	:	2017-05-29-03/02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	370	370	2.5	97.5	90-100
3	20 mm	5300	5670	37.8	62.2	30-70
4	10 mm	4356	10026	66.8	33.2	10-35
5	4.75 mm	4650	14676	97.8	2.2	0-5
6	Pan	324	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-29-03**

Sample ID No : 2017-05-29-03/02(b)

Date: 02-06-2017

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.4	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.22	–

Note:

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Prepared by
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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-29-03**

Date: 02-06-17

Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04

Agency : Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/45/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-05-17

Sample ID No : 2017-05-29-03/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - I, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 29-05-16

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	80	80	8	92	90-100	90-100	90-100	95-100
3	2.36 mm	120	200	20	80	60-95	75-100	85-100	95-100
4	1.18 mm	180	380	38	62	30-70	55-90	75-100	90-100
5	600 micron	179	559	55.9	44.1	15-34	35-59	60-79	80-100
6	300 micron	201	760	76	24	5-20	8-30	12-40	15-50
7	150 micron	189	949	94.9	5.1	0-10	0-10	0-10	0-15
8	Pan	51	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-29-03**

Sample ID No : 2017-05-29-03/03

Date: 02-06-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.45	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	5.15	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-29-03** **Date: 02-06-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-17
Sample ID No	:	2017-05-29-03/02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	270	270	5.4	94.6	90-100
3	10 mm	2480	2750	55.0	45.0	25-55
4	4.75 mm	2198	4948	99.0	1.0	0-10
5	Pan	52	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-29-03**

Sample ID No : 2017-05-29-03/02(a) **Date: 02-06-2017**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Prepared by
Harshitha

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS:2386 Part 1)

Lab ID	:	**CP-RW-2017-06-20-01** **Date: 22-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-17
Sample ID No	:	2017-06-20-01/01
Type of Mix	:	Coarse Aggregate for BC (Bituminous Concrete)
Date of test	:	21-06-17

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 500-16
Flakiness Index	10.6%	Combined Flakiness & Elongation Index for BC is Maximum 35%
Elongation Index	11.9%	
Combined Flakiness and Elongation Index for BC	22.5%	

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R KARTHIK RECHAN
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SPECIFIC GRAVITY AND WATER ABSORPTION TEST
(IS:2386 Part III)

Lab ID	:	**CP-RW-2017-06-20-01** **Date: 23-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-17
Sample ID No	:	2017-06-20-01/01
Type of Mix	:	Coarse Aggregate for BC (Bituminous Concrete)
Date of test	:	20-06-17

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2065	2076	
2	Weight of Empty Basket suspended in water	A2	grams	728	762	
3	Weight of Aggregates in water	A=A1-A2	grams	1337	1314	
4	Weight of Saturated Surface Dry aggregate	B	grams	2143	2098	
5	Weight of oven dried aggregate	C	grams	2140	2094	
6	Specific gravity	C/(B-A)		2.66	2.67	2.66
7	Apparent Specific gravity	C/(C-A)		2.67	2.68	2.67
8	Water absorption	100*(B-C) /C	Percent	0.14	0.19	0.17

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Prepared By:
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Quality Manager

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TESTS RESULTS ON AGGREGATE IMPACT VALUE

AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

Certificate No.: T- 4358

Lab ID : # 4, 7TH MAIN, MALLESWARAM, BANGALORE -3 **CP-RW-2017-06-20-01** **Date: 22-06-17**

Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-17
Sample ID No	:	2017-06-20-01/01
Type of Mix	:	Coarse Aggregate for BC (Bituminous Mecadam)
Date of test	:	20-06-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.6	302.6
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	62.9	65.2
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	239.3	237.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.3
5	Aggregate impct value	(B/A)*100	20.8	21.5
6	Aggregate impct value (Mean of two tests)		21.2	

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Prepared By:
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-06-10-01** **Date: 11-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-06-17
Sample ID No	:	2017-06-10-01/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	10-06-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.2%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.8%	
Combined Flakiness and Elongation Index for WMM	22.0%	

Note:-
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Certificate No.: T- 4358

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-06-10-01** **Date: 11-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-06-17
Sample ID No	:	2017-06-10-01/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	10-06-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	299.7	299.7
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	62.0	66.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	237.1	233.2
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.4
5	Aggregate impact value	(B/A)*100	20.7	22.1
6	Aggregate impact value (Mean of two tests)	Pecentage	21.4	

Note:-
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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2017-06-10-01 **Date: 11-06-17**

Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04

Agency : Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.

Customer Reference : EE(YNK.D)E-PMT-07/W.O/45/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-06-17

Sample ID No : 2017-06-10-01/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 10-06-17

Oven Dry Weight : 12000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	212	212	1.8	98.2	95-100
22.4	2398	2610	21.8	78.3	60-80
11.2	3072	5682	47.4	52.7	40-60
4.75	2197	7879	65.7	34.3	25-40
2.36	1876	9755	81.3	18.7	15-30
0.6	532	10287	85.7	14.3	8-22
0.075	1322	11609	96.7	3.3	0-5

Note:-

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2017-06-20-01 **Date: 21-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-17
Sample ID No	:	2017-06-20-01/01
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	20-06-17
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	72	72	1.4	98.6	90-100
9.5	821	893	17.9	82.1	70-88
4.75	911	1804	36.1	63.9	53-71
2.36	421	2225	44.5	55.5	42-58
1.18	442	2667	53.3	46.7	34-48
0.6	511	3178	63.6	36.4	26-38
0.3	521	3699	74.0	26.0	18-28
0.15	412	4111	82.2	17.8	12-20
0.075	502	4613	92.3	7.7	4-10
PAN	387	5000	100	0.0	0

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-06-20-01** **Date: 23-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-17
Sample ID No	:	2017-06-20-01/01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	20-06-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE W4

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-06-20-01** **Date: 23-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-17
Sample ID No	:	2017-06-20-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	20-06-17

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.03	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.61	2-4
3	Percent air Voids	4.82	4.73	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.16	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	70.63	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2017-06-15-01 **Date: 16-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04
Agency	:	Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/45/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-06-17
Sample ID No	:	2017-06-15-01/01
Type of Mix	:	BC-Plant (Bituminous Macadam)
Date of test		15-06-17
Weight of Sample(gm)	:	5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	162	162	3.2	96.8	90-100
13.2	510	672	13.4	86.6	56-88
4.75	2750	3422	68.4	31.6	16-36
2.36	910	4332	86.6	13.4	4-19
0.3	355	4687	93.7	6.3	2-10
0.075	230	4917	98.3	1.7	0-8
PAN	83	5000	100.0	0.0	0

Note:-
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Prepared By:
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SPECIFIC GRAVITY AND WATER ABSORPTION TEST
IS:2386 Part III

Lab ID : CP-RW-2017-06-15-01 **Date: 18-06-17**

Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drain and Providing asphalting to MIG 3rd Phase old post office road in Ward No.04

Agency : Sri.G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore.

Customer Reference : EE(YNK.D)E-PMT-07/W.O/45/2017-18

Source of Sample : Sample supplied by the Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-17

Sample ID No : 2017-06-15-01/01

Type of Mix : BM (Bituminous Macadam)

Date of test : 15-06-17

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2209	2199	
2	Weight of Empty Basket suspended in water	A2	grams	791	728	
3	Weight of Aggregates in water	A=A1-A2	grams	1418	1471	
4	Weight of Saturated Surface Dry aggregate	B	grams	2290	2388	
5	Weight of oven dried aggregate	C	grams	2283	2381	
6	Specific gravity	C/(B-A)		2.63	2.60	2.61
7	Apparent Specific gravity	C/(C-A)		2.64	2.62	2.63
8	Water absorption	100*(B-C) /C	Percent	0.31	0.29	0.30

Note:-
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Prepared By:
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